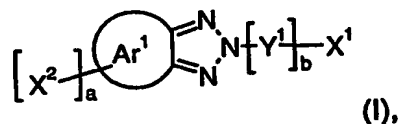


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Claims

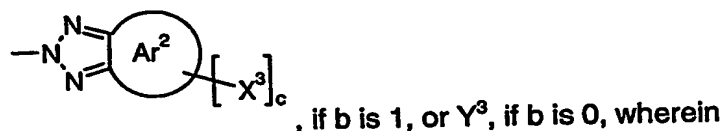
1. An electroluminescent device, comprising a 2H-benzotriazole compound, especially a compound of the formula



a is 0, or 1,

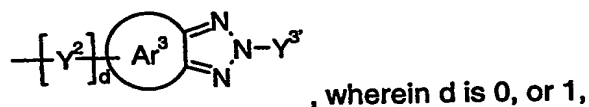
b is 0, or 1,

X¹ is a group of formula



c is 0, or 1

X² and X³ are independently of each other a group of formula

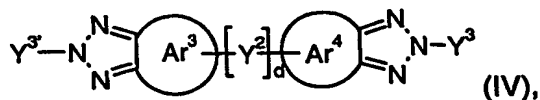
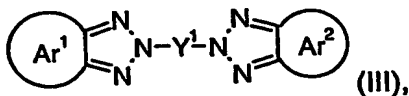
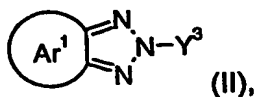


Ar¹, Ar², and Ar³ are independently of each other aryl or heteroaryl, which can optionally be substituted, especially C₆-C₃₀aryl or a C₂-C₂₆heteroaryl, which can optionally be substituted,

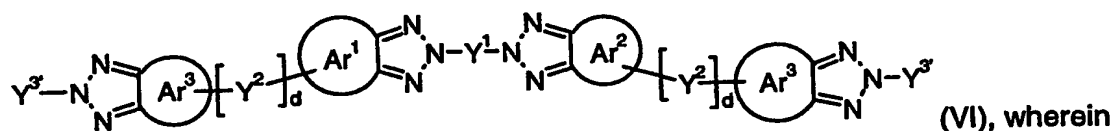
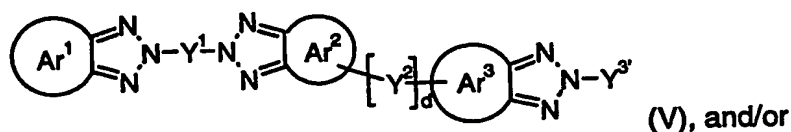
Y¹ and Y² are independently of each other a divalent linking group, and

Y³ and Y^{3'} are independently of each other aryl or heteroaryl, which can optionally be substituted, especially C₆-C₃₀aryl or a C₂-C₂₆heteroaryl, which can optionally be substituted.

2. An electroluminescent device according to claim 1, comprising a 2H-benzotriazole compound of the formula



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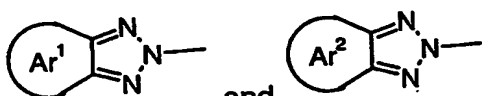
d, Ar¹, Ar², Ar³, Y¹ and Y² are defined as in claim 1,

Ar⁴ stand for C₆-C₃₀aryl or a C₂-C₂₆heteroaryl, which can optionally be substituted,

and

Y³ and Y^{3'} are independently of each other C₆-C₃₀aryl or a C₂-C₂₆heteroaryl, which can optionally be substituted.

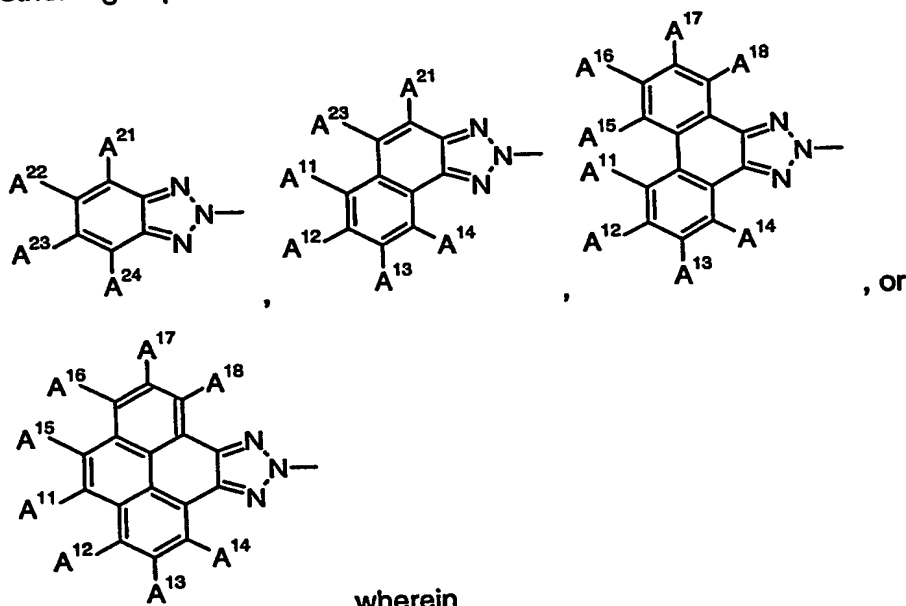
3. An electroluminescent device according to claim 2, wherein



and

in formula II or III are independently of each

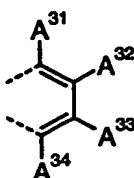
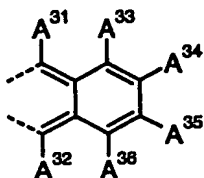
other a group of formula

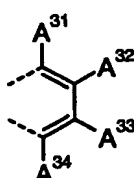
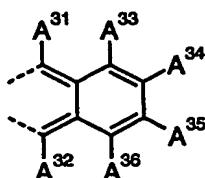


, wherein

A²¹, A²², A²³, A²⁴, A¹¹, A¹², A¹³, A¹⁴, A¹⁵, A¹⁶, A¹⁷ and A¹⁸ are independently of each other H, halogen, hydroxy, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₁-C₂₄perfluoroalkyl, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, -NR²⁵R²⁶, C₁-C₂₄alkylthio, -PR³²R³², C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkoxy which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is

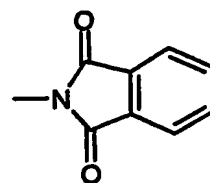
substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, C₇-C₂₅aralkyl, which is substituted by E, C₇-C₂₅aralkoxy, C₇-C₂₅aralkoxy which is substituted by E, or -CO-R²⁸, or

5 A²² and A²³ or A¹¹ and A²³ are a group , or , or two groups A¹¹, A¹², A¹³, A¹⁴, A¹⁵, A¹⁶, A¹⁷ and A¹⁸, which are neighbouring to each

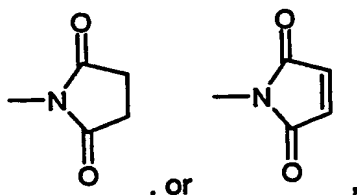
other, are a group , or , wherein A³¹, A³², A³³, A³⁴, A³⁵, A³⁶ and A³⁷ are independently of each other H, halogen, hydroxy, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₁-C₂₄perfluoroalkyl, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkoxy which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, C₇-C₂₅aralkyl, which is substituted by E, C₇-C₂₅aralkoxy, C₇-C₂₅aralkoxy which is substituted by E, or -CO-R²⁸, D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C≡C-; and

E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COOR²⁷; -CONR²⁵R²⁸; -CN; -OCOOR²⁷; or halogen; wherein

20 R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H; C₆-C₁₈aryl; C₆-C₁₈aryl which is substituted by C₁-C₂₄alkyl, or C₁-C₂₄alkoxy; C₁-C₂₄alkyl; or C₁-C₂₄alkyl which is interrupted by -O-; or



R^{25} and R^{26} together form a five or six membered ring, in particular



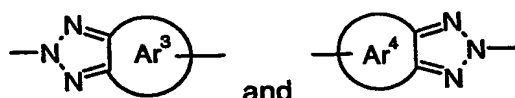
R^{27} and R^{28} are independently of each other H; C_6-C_{18} aryl; C_6-C_{18} aryl which is substituted by C_1-C_{24} alkyl, or C_1-C_{24} alkoxy; C_1-C_{24} alkyl; or C_1-C_{24} alkyl which is interrupted by $-O-$,

R^{29} is H; C_6-C_{18} aryl; C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl, or C_1-C_{24} alkoxy; C_1-C_{24} alkyl; or C_1-C_{24} alkyl which is interrupted by $-O-$,

R^{30} and R^{31} are independently of each other C_1-C_{24} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl, and

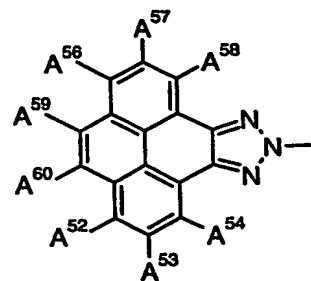
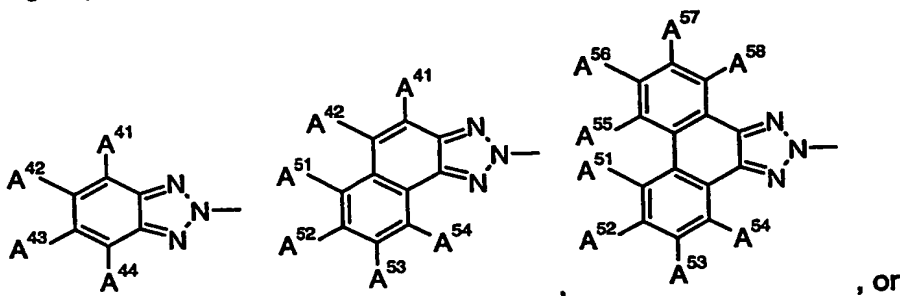
R^{32} is C_1-C_{24} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl.

4. An electroluminescent device according to claim 2, wherein



in formula IV are independently of each other

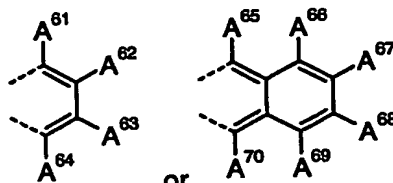
a group of formula



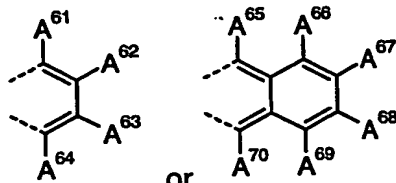
, wherein

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A^{41} , A^{42} , A^{43} , A^{44} , A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} and A^{60} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or - NR^{25} -, $NR^{25}R^{26}$, C_1 - C_{24} alkylthio, - $PR^{32}R^{32}$, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkyl, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or - $CO-R^{28}$,
 or



A^{42} and A^{43} or A^{42} and A^{51} are a group two groups A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} and A^{60} , which are neighbouring to



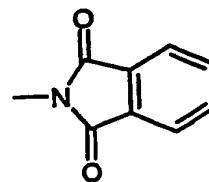
each other, are a group , or , wherein A^{61} , A^{62} , A^{63} , A^{64} , A^{65} ,

A^{66} , A^{67} , A^{68} , A^{69} and A^{70} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or - NR^{25} -, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkyl, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or - $CO-R^{28}$,

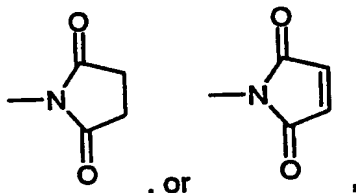
D is - CO -; - COO -; -S-; - SO -; - SO_2 -; -O-; - NR^{25} -; - $SiR^{30}R^{31}$ -; - POR^{32} -; - $CR^{23}=CR^{24}$ -; or - $C\equiv C$ -; and

E is - OR^{29} ; - SR^{29} ; - $NR^{25}R^{26}$; - COR^{28} ; - $COOR^{27}$; - $CONR^{25}R^{26}$; -CN; - $OCOOR^{27}$; or halogen; wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-; or



R^{25} and R^{26} together form a five or six membered ring, in particular



R^{27} and R^{28} are independently of each other H; C_6-C_{18} aryl; C_6-C_{18} aryl which is substituted by C_1-C_{24} alkyl, or C_1-C_{24} alkoxy; C_1-C_{24} alkyl; or C_1-C_{24} alkyl which is interrupted by $-O-$,

R^{29} is H; C_6-C_{18} aryl; C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl, or C_1-C_{24} alkoxy; C_1-C_{24} alkyl; or C_1-C_{24} alkyl which is interrupted by $-O-$,

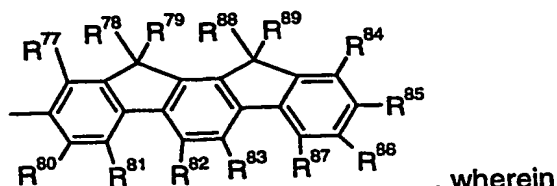
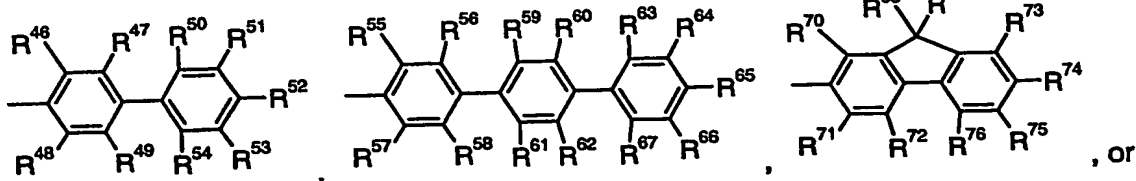
R^{30} and R^{31} are independently of each other C_1-C_{24} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl, and

R^{32} is C_1-C_{24} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl, wherein one of the substituents A^{41} , A^{42} , A^{43} , A^{44} , A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} , A^{60} , A^{61} , A^{62} , A^{63} , A^{64} , A^{65} , A^{66} , A^{67} , A^{68} , A^{69} and A^{70} represents a single bond.

5. An electroluminescent device according to claim 2, 3 or 4, wherein



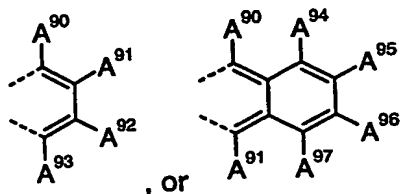
Y^3 and Y^3' are independently of each other a group of formula



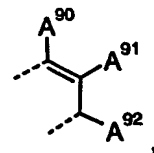
, wherein R^{41} , R^{42} , R^{43} , R^{44} , R^{45} , R^{46} , R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , R^{52} , R^{53} , R^{54} , R^{55} , R^{56} , R^{57} , R^{58} , R^{59} , R^{60} , R^{61} , R^{62} , R^{63} , R^{64} , R^{65} , R^{66} , R^{67} , R^{70} , R^{71} , R^{72} , R^{73} , R^{74} , R^{75} , R^{76} , R^{77} , R^{80} , R^{81} , R^{82} , R^{83} , R^{84} , R^{85} , R^{86} , and R^{87} are independently of each other H, C_1-C_{24} alkyl, which is

optionally substituted by E and/or interrupted by D, C₁-C₂₄alkenyl, which is optionally substituted by E, C₅-C₁₂cycloalkyl, which is optionally substituted by E, C₅-C₁₂cycloalkoxy, which is optionally substituted by E, C₆-C₁₈aryl, which is optionally substituted by E, C₁-C₂₄alkoxy, which is optionally substituted by E and/or interrupted by D, C₆-C₁₈aryloxy, which is optionally substituted by E, C₇-C₁₈arylalkoxy, which is optionally substituted by E, C₁-C₂₄alkylthio, which is optionally substituted by E and/or interrupted by D, C₁-C₂₄alkylselenium, which is optionally substituted by E and/or interrupted by D, C₁-C₂₄alkyltellurium, which is optionally substituted by E and/or interrupted by D, C₂-C₂₀heteroaryl which is substituted by E, or C₆-C₁₈aralkyl, which is optionally substituted by E, or

two groups R⁴¹, R⁴², R⁴³, R⁴⁴, R⁴⁵, R⁴⁶, R⁴⁷, R⁴⁸, R⁴⁹, R⁵⁰, R⁵¹, R⁵², R⁵³, R⁵⁴, R⁵⁵, R⁵⁶, R⁵⁷, R⁵⁸, R⁵⁹, R⁶⁰, R⁶¹, R⁶², R⁶³, R⁶⁴, R⁶⁵, R⁶⁶, R⁶⁷, R⁷⁰, R⁷¹, R⁷², R⁷³, R⁷⁴, R⁷⁵, R⁷⁶, R⁷⁷, R⁸⁰, R⁸¹, R⁸², R⁸³, R⁸⁴, R⁸⁵, R⁸⁶, and R⁸⁷, which are neighbouring to each other, are a group



, or , wherein A⁹⁰, A⁹¹, A⁹², A⁹³, A⁹⁴, A⁹⁵, A⁹⁶ and A⁹⁷ are independently of each other H, halogen, hydroxy, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₁-C₂₄perfluoroalkyl, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkoxy which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, C₇-C₂₅aralkyl, which is substituted by E, C₇-C₂₅aralkoxy, C₇-C₂₅aralkoxy which is substituted by E, or -CO-R²⁸, R⁶⁸, R⁶⁹, R⁷⁸, R⁷⁹, R⁸⁸ and R⁸⁹ are independently of each other C₁-C₁₈ alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or R⁶⁸ and R⁶⁹, R⁷⁸ and R⁷⁹, and/or R⁸⁸ and R⁸⁹ form a ring, especially a five- or six-membered ring, or

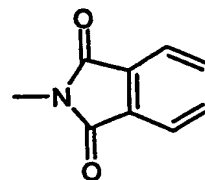


R⁶⁸ and R⁷⁰, R⁶⁹ and R⁷³, R⁷⁷ and R⁷⁸ and/or R⁸⁴ and R⁸⁹ are a group

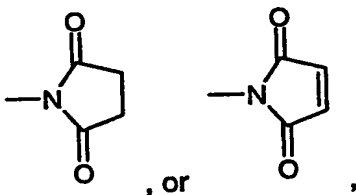
D is $-\text{CO}-$; $-\text{COO}-$; $-\text{S}-$; $-\text{SO}-$; $-\text{SO}_2-$; $-\text{O}-$; $-\text{NR}^{25}-$; $-\text{SiR}^{30}\text{R}^{31}-$; $-\text{POR}^{32}-$; $-\text{CR}^{23}=\text{CR}^{24}-$; or $-\text{C}\equiv\text{C}-$; and

E is $-\text{OR}^{29}$; $-\text{SR}^{29}$; $-\text{NR}^{25}\text{R}^{26}$; $-\text{COR}^{28}$; $-\text{COOR}^{27}$; $-\text{CONR}^{25}\text{R}^{26}$; $-\text{CN}$; $-\text{OCOOR}^{27}$; or halogen; wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$, or $\text{C}_1\text{-C}_{24}\text{alkoxy}$; $\text{C}_1\text{-C}_{24}\text{alkyl}$; or $\text{C}_1\text{-C}_{24}\text{alkyl}$ which is interrupted by $-\text{O}-$; or



R^{25} and R^{26} together form a five or six membered ring, in particular



R^{27} and R^{28} are independently of each other H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$, or $\text{C}_1\text{-C}_{24}\text{alkoxy}$; $\text{C}_1\text{-C}_{24}\text{alkyl}$; or $\text{C}_1\text{-C}_{24}\text{alkyl}$ which is interrupted by $-\text{O}-$,

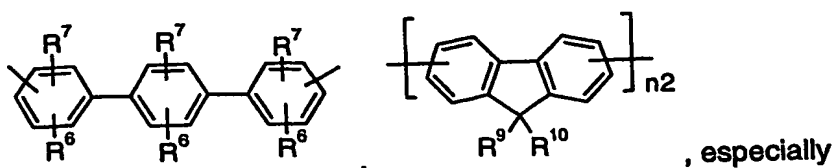
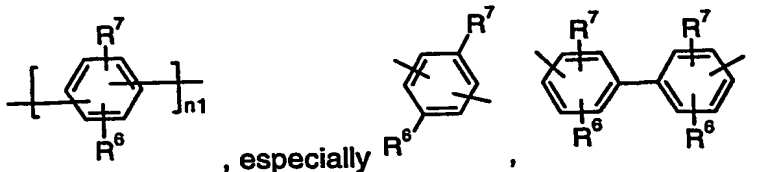
R^{29} is H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$, or $\text{C}_1\text{-C}_{24}\text{alkoxy}$; $\text{C}_1\text{-C}_{24}\text{alkyl}$; or $\text{C}_1\text{-C}_{24}\text{alkyl}$ which is interrupted by $-\text{O}-$,

R^{30} and R^{31} are independently of each other $\text{C}_1\text{-C}_{24}\text{alkyl}$, $\text{C}_6\text{-C}_{18}\text{aryl}$, or $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$, and

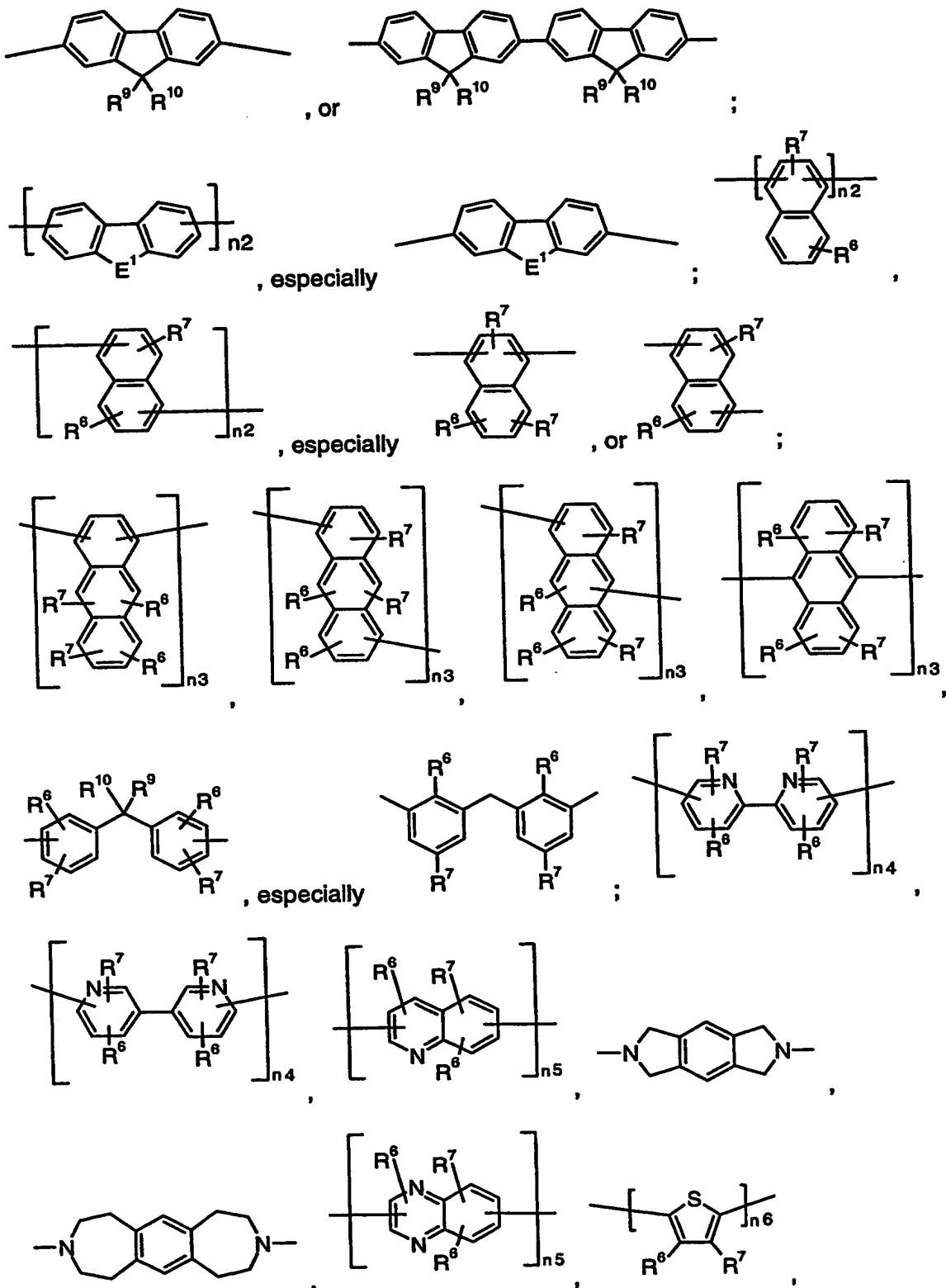
R^{32} is $\text{C}_1\text{-C}_{24}\text{alkyl}$, $\text{C}_6\text{-C}_{18}\text{aryl}$, or $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$.

6. An electroluminescent device according to any of claims 1 to 5, wherein

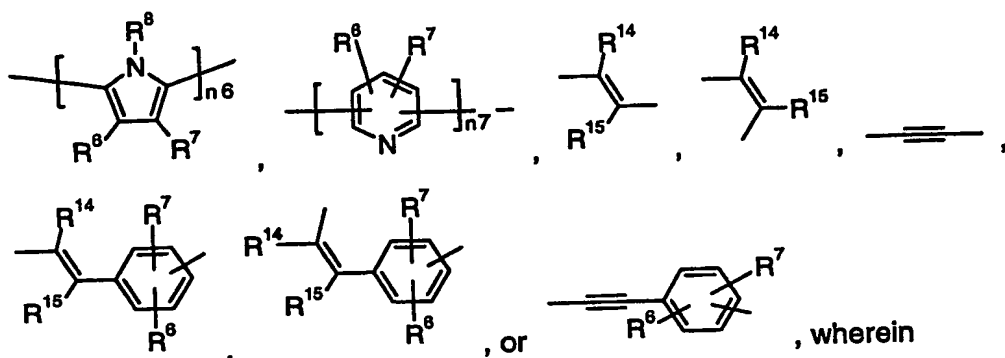
Y^1 and Y^2 are independently of each other



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$n_1, n_2, n_3, n_4, n_5, n_6$ and n_7 are 1, 2, or 3, in particular 1,

E^1 is -S-, -O-, or -NR²⁵-, wherein R²⁵ is C₁-C₂₄alkyl, or C₆-C₁₀aryl,

R⁶ and R⁷ are independently of each other H, halogen, hydroxy, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₁-C₂₄perfluoroalkyl, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkoxy which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, C₇-C₂₅aralkyl, which is substituted by E, C₇-C₂₅aralkoxy, C₇-C₂₅aralkoxy which is substituted by E, or -CO-R²⁸, R⁸ is C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, or C₇-C₂₅aralkyl,

R⁹ and R¹⁰ are independently of each other C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or

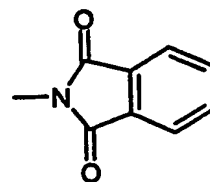
R⁹ and R¹⁰ form a ring, especially a five- or six-membered ring,

R¹⁴ and R¹⁵ are independently of each other H, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by E,

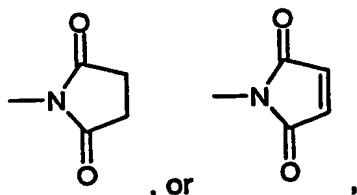
D is -CO-, -COO-, -S-, -SO-, -SO₂-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C≡C-, and

E is -OR²⁹-, -SR²⁹-, -NR²⁵R²⁶-, -COR²⁸-, -COOR²⁷-, -CONR²⁵R²⁶-, -CN, -OCOOR²⁷-, or halogen, wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₂₄alkyl, C₁-C₂₄alkoxy, C₁-C₂₄alkyl, or C₁-C₂₄alkyl which is interrupted by -O-, or



R^{25} and R^{26} together form a five or six membered ring, in particular



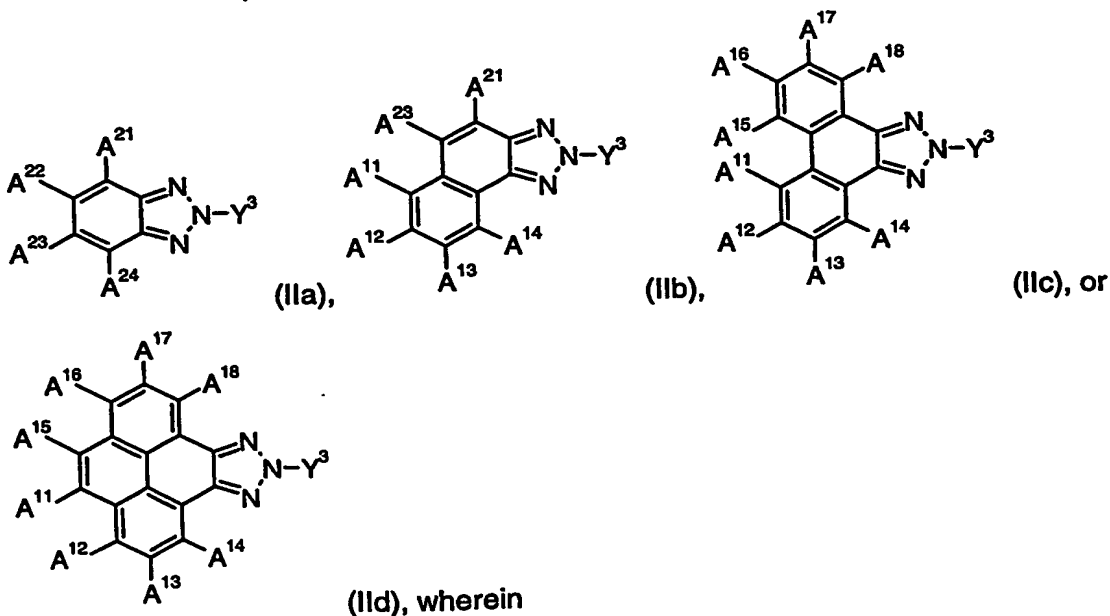
R^{27} and R^{28} are independently of each other H, C_6-C_{18} aryl, C_6-C_{18} aryl which is substituted by C_1-C_{24} alkyl, or C_1-C_{24} alkoxy, C_1-C_{24} alkyl, or C_1-C_{24} alkyl which is interrupted by $-O-$,

R^{29} is H, C_6-C_{18} aryl, C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl, C_1-C_{24} alkoxy, C_1-C_{24} alkyl, or C_1-C_{24} alkyl which is interrupted by $-O-$,

R^{30} and R^{31} are independently of each other C_1-C_{24} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl, and

R^{32} is C_1-C_{24} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{24} alkyl.

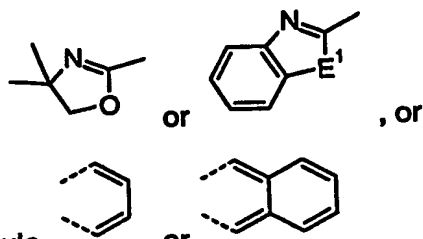
7. An electroluminescent device according to claim 2, 3, or 5, wherein the 2H-benzotriazole compound is a compound of formula



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A^{21} , A^{22} , A^{23} and A^{24} are independently of each other hydrogen, halogen, C_1 - C_{24} alkyl, C_1 - C_{24} perfluoroalkyl, C_6 - C_{18} aryl, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$, or C_2 -

C_{10} heteroaryl, especially a group of formula



A^{22} and A^{23} or A^{11} and A^{23} are a group of formula

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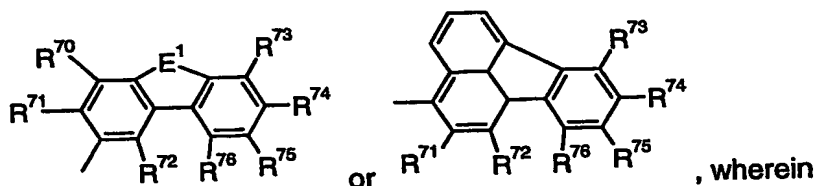
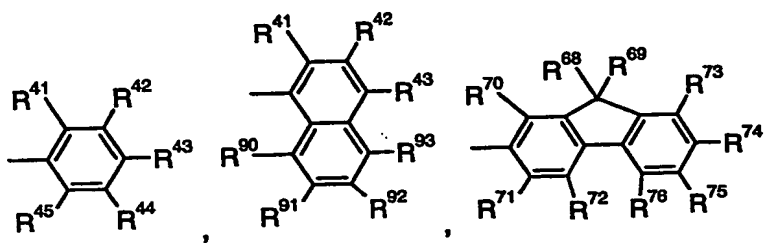
A^{11} , A^{12} , A^{13} , A^{14} , A^{15} , A^{16} , A^{17} , and A^{18} are independently of each other H, CN, C_1 - C_{24} alkyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkylthio, C_6 - C_{18} aryl, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$, or C_2 - C_{10} heteroaryl, wherein

R^{25} and R^{26} are independently of each other H, C_6 - C_{18} aryl, C_7 - C_{18} aralkyl, or C_1 - C_{24} alkyl,

R^{27} is C_1 - C_{24} alkyl, and

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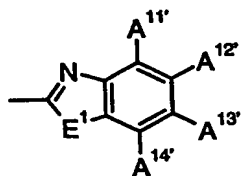
Y^3 is a group of formula



R^{41} is hydrogen, C_1 - C_{24} alkoxy, or OC_7 - C_{18} aralkyl,

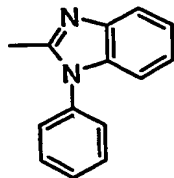
R^{42} is hydrogen, or C_1 - C_{24} alkyl,

R^{43} is hydrogen, halogen, $-CONR^{25}R^{26}$, $-COOR^{27}$,

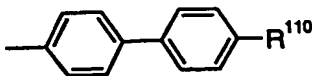


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especially



, or

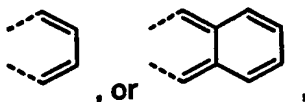


, wherein

E^1 is $-S-$, $-O-$, or $-NR^{25}-$, wherein R^{25} is C_1 - C_{24} alkyl, or C_6 - C_{10} aryl,

R^{110} is H, CN, C_1 - C_{24} alkyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkylthio, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$, or

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R^{42} and R^{43} are a group of formula

R^{44} is hydrogen, or C_1 - C_{24} alkyl,

R^{45} is hydrogen, or C_1 - C_{24} alkyl,

$A^{11'}$, $A^{12'}$, $A^{13'}$, and $A^{14'}$ are independently of each other H, CN, C_1 - C_{24} alkyl, C_1 -

C_{24} alkoxy, C_1 - C_{24} alkylthio, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$,

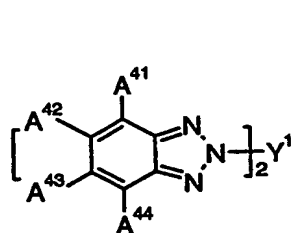
R^{68} and R^{69} are independently of each other C_1 - C_{24} alkyl, especially C_4 - C_{12} alkyl, especially hexyl, heptyl, 2-ethylhexyl, and octyl, which can be interrupted by one or two oxygen atoms,

R^{70} , R^{71} , R^{72} , R^{73} , R^{74} , R^{75} , R^{76} , R^{90} , R^{91} , R^{92} , and R^{93} are independently of each other H, CN, C_1 - C_{24} alkyl, C_6 - C_{10} aryl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkylthio, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$,

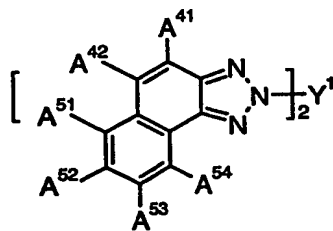
R^{25} and R^{26} are independently of each other H, C_6 - C_{18} aryl, C_7 - C_{18} aralkyl, or C_1 - C_{24} alkyl, and

R^{27} is C_1 - C_{24} alkyl.

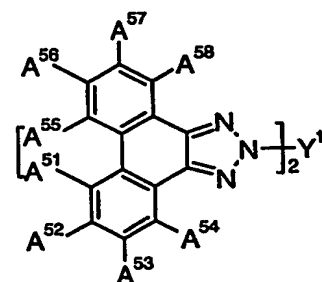
8. An electroluminescent device according to claim 2, 3, or 6, wherein the 2H-benzotriazole compound is a compound of formula



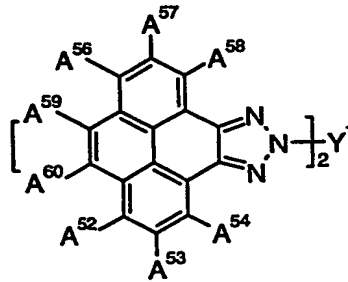
(IIIa),



(IIIb),



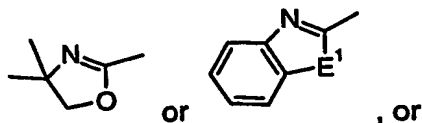
(IIIc), or



(IIId), wherein

A^{41} , A^{42} , A^{43} and A^{44} are independently of each other hydrogen, halogen, C_1 - C_{24} alkyl, C_1 - C_{24} perfluoroalkyl, C_6 - C_{18} aryl, $-NR^{25}R^{26}$, $-CO NR^{25}R^{26}$, or $-COOR^{27}$, or C_2 -

C_{10} heteroaryl, especially a group of formula



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A^{42} and A^{43} are a group of formula

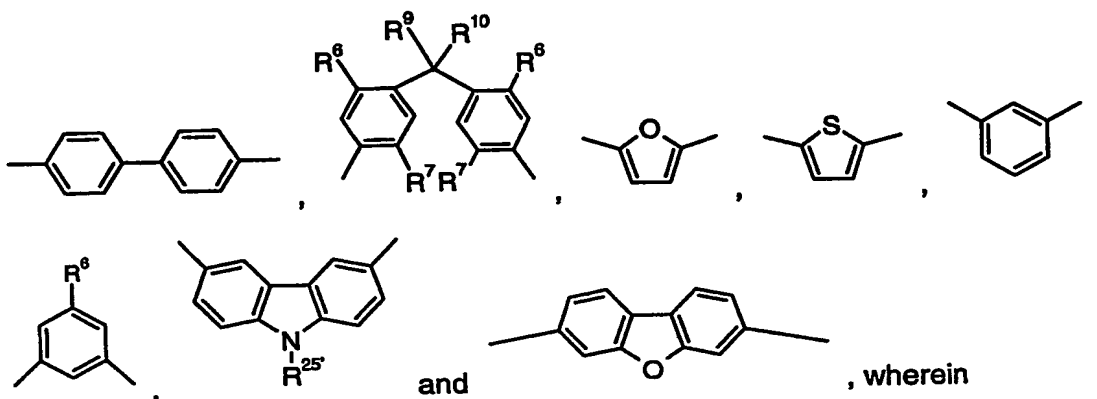
A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} and A^{60} are independently of each other H, CN, C_1 - C_{24} alkyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkylthio, C_6 - C_{18} aryl, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$, or C_2 - C_{10} heteroaryl, wherein

E^1 is O, S, or $-NR^{25'}$,

R^{25} and R^{26} are independently of each other H, C_6 - C_{18} aryl, C_7 - C_{18} aralkyl, or C_1 - C_{24} alkyl,

R^{27} is C_1 - C_{24} alkyl, and

Y^1 is a group of formula

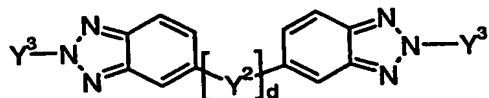


and , wherein

R^6 is C_1 - C_{24} alkoxy, or $-O-C_7$ - C_{25} aralkyl, R^7 is H, or C_1 - C_{24} alkyl, R^9 and R^{10} are independently of each other C_1 - C_{24} alkyl, especially C_4 - C_{12} alkyl, which can be interrupted by one or two oxygen atoms, and

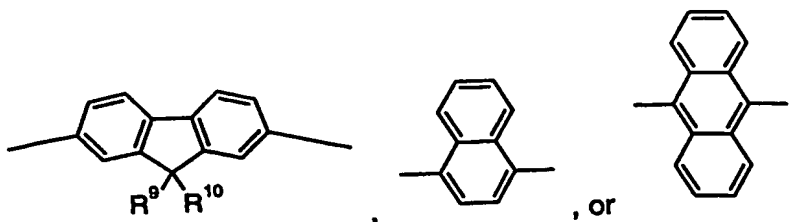
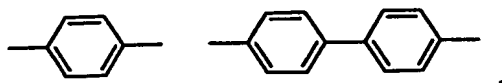
$R^{25'}$ is C_1 - C_{24} alkyl, or C_6 - C_{10} aryl.

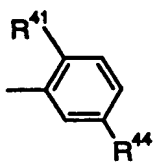
9. An electroluminescent device according to claim 2, 4, 5 or 6, wherein the 2H-benzotriazole compound is a compound of formula



(VIa), wherein d is 0, or 1,

Y^2 is a group of formula $-O-$, $-S-$, $-NR^{25'}$,





Y^3 is a group of formula

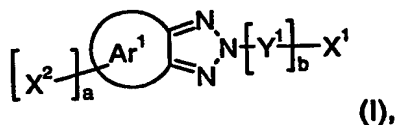
R^9 and R^{10} are independently of each other C_1 - C_{24} alkyl, especially C_4 - C_{12} alkyl, which can be interrupted by one or two oxygen atoms,

R^{25} is H, C_6 - C_{18} aryl, C_7 - C_{18} aralkyl, or C_1 - C_{24} alkyl,

R^{41} is C_1 - C_{24} alkoxy, or C_7 - C_{15} phenylalkoxy, and

R^{44} is H, or C_1 - C_{24} alkyl.

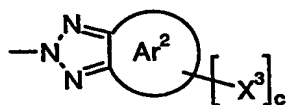
10. A 2H-benzotriazole compound of the formula



a is 0, or 1,

b is 0, or 1,

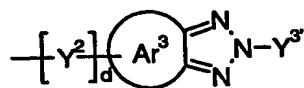
X^1 is a group of formula



, if b is 1, or Y^3 , if b is 0, wherein

c is 0, or 1

X^2 and X^3 are independently of each other a group of formula



, wherein d is 0, or 1,

Ar^1 , Ar^2 , and Ar^3 are independently of each other aryl or heteroaryl, which can optionally be substituted, especially C_6 - C_{30} aryl or a C_2 - C_{26} heteroaryl, which can optionally be substituted,

Y^1 and Y^2 are independently of each other a divalent linking group, and

Y^3 and Y^3 are independently of each other aryl or heteroaryl, which can optionally be substituted, especially C_6 - C_{30} aryl or a C_2 - C_{26} heteroaryl, which can optionally be substituted.